



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

AS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/953, 413	10/17/97	KIM	J 07059.0002

LMC1/0526  
FINNEGAN HENDERSON FARABOW GARRETT &  
DUNNER  
1300 I STREET N W  
WASHINGTON DC 20005-3315

EXAMINER	
FIZIALI, J	
ART UNIT	PAPER NUMBER
2778	7

DATE MAILED: 05/26/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## Office Action Summary

Application No. <b>08/953,413</b>	Applicant(s) <b>Kim</b>
Examiner <b>Jeff Piziali</b>	Group Art Unit <b>2778</b>

Responsive to communication(s) filed on Oct 17, 1997

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

### Disposition of Claims

Claim(s) 1-5 is/are pending in the application.  
Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 Claim(s) \_\_\_\_\_ is/are allowed.  
 Claim(s) 1-5 is/are rejected.  
 Claim(s) \_\_\_\_\_ is/are objected to.  
 Claims \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.  
 The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.  
 The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.  
 The specification is objected to by the Examiner.  
 The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).  
 All  Some\*  None of the CERTIFIED copies of the priority documents have been  
     received.  
     received in Application No. (Series Code/Serial Number) \_\_\_\_\_.  
     received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

### Attachment(s)

Notice of References Cited, PTO-892 ✓  
 Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_  
 Interview Summary, PTO-413 ✓  
 Notice of Draftsperson's Patent Drawing Review, PTO-948  
 Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2778

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Shirochi (5,155,477).

In regards to claim 1, Shirochi discloses a liquid crystal display picture inversion controlling apparatus (refer to Column 1, Lines 7-11) comprising: a sync signal detector (4) for a video signal (refer to Figure 4; Column 6, Lines 6-19); and a picture inversion controller (5) (refer to Figure 4; Column 6, Lines 20-30).

In regards to claim 2, Shirochi discloses providing the picture inversion control signal when the sync signal detector indicates there is no image being displayed on the liquid crystal display (refer to Figure 4; Column 7, Line 47 - Column 8, Line 12).

Art Unit: 2778

In regards to claim 3, Shirochi discloses a sync signal generator generating an optional sync signal (QVD) in accordance with the picture inversion control signal of the controller (refer to Figure 4; Column 8, Lines 57-64).

In regards to claim 4, Shirochi discloses a liquid crystal display picture inversion controlling method (refer to Column 1, Lines 7-11) comprising: detecting a sync signal from a video signal in response to a picture inversion input (refer to Figure 4; Column 6, Lines 6-19); determining whether a video image is displayed on the LCD or not (refer to Figure 4; Column 7, Line 47 - Column 8, Line 12); and selectively controlling a picture inversion operation (refer to Figure 4; Column 6, Lines 20-30).

In regards to claim 5, Shirochi discloses providing a control signal to execute the picture inversion operation when it is determined that no video image is displayed on the LCD (refer to Figure 4; Column 7, Line 47 - Column 8, Line 12).

### ***Conclusion***

3. The art made of record and not relied upon is considered pertinent to applicant's disclosure. Rympalski et al. (4,639,720), Yamashita et al. (4,795,239), and Aoki (5,656,802) are cited to further show the state of the art with respect to controlling liquid crystal display picture inversion.

Art Unit: 2778

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday from 6:30 AM to 3 PM E.S.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala, can be reached on (703) 305-4938.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 308-9051, (for formal communications intended for entry)

**Or:**

(703) 308-6606 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

*Matthew Luu*  
MATTHEW LUU  
PRIMARY EXAMINER

DP-5/17/99